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FruitLook Manual

V5 – January 2019



Content of this Manual

This manual will provide a 6-step basic introduction on FruitLook:

- Step 1: Register to FruitLook (Once Only)
- Step 2: Place your fields orders
 - A. New field orders
 - B. Duplicate fields from other seasons
 - C. Order single field from field database
 - D. Delete fields from your account
- Step 3: Analyse your fields
 - A. MyFields Overview
 - B. MyFields
 - C. MyField Analysis
- Step 4: Export data to Excel or other software
- Step 5: FruitSupport
- Step 6: Get more information on FruitLook



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STEP 1

Register to FruitLook (Once only)



Step 1: Register to FruitLook (only once)

Select
["Register for free"](#)
on the FruitLook
homepage



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See more.. Consultants

E-mailaddress Password Login

Save password Lost password?

+ Add your field

+ Register for free

View demoblocks

Newsletter:
Subscribe now!
Fill in your e-mailaddress
Send

News
FruitLook Training
Thursday 6 December
You are welcome to register for our
FruitLook Basics Training (09.00 -
12.00) on Thursday 6....
Read more

FruitLook 2018-19
newsletters
December 4, 2018 - In the newsletter
much useful information can be found
about....
Read more

Zoom in on your crop

GENERAL GROWTH MOISTURE MINERALS RETURNS

Welcome to FruitLook

Want to know more? Press [HERE](#)

The FruitLook service is funded by the Western Cape Department of Agriculture. The project is executed by eLEAF from the Netherlands in cooperation with South African partners.


Western Cape Government Agriculture eleaf

eLEAF | Hesselink van Suchtelenweg 6 | 6703 CT Wageningen | The Netherlands | info@fruitlook.co.za | [Privacy](#) | [General conditions](#)



Step 1: Register to FruitLook (only once)

1. Fill in the [registration form](#). The fields with an * are obligatory.
2. Remember to tick Yes to subscribe to the newsletter.
3. Your registration will only be saved if all the terms and conditions have been ticked.
4. Press “Save” at the bottom of the form when you have completed your details.
5. FruitLook will send you an email with a link to confirm your registration. Please confirm your registration by pressing this link.¹

Contact info 

Company name	<input type="text"/>	
First name	<input type="text"/>	*
Infix	<input type="text"/>	
Last name	<input type="text"/>	*
Gender	<input type="radio"/> male <input type="radio"/> female	*
E-mailaddress	<input type="text"/>	*
Phone number	<input type="text"/>	*
Fax number	<input type="text"/>	
Mobile number	<input type="text"/>	
VAT number	<input type="text"/>	
Type of user	<input type="text" value="Farmers"/>	▼

¹ Please note: Your confirmation email might end up in your spam-folder (especially if you use gmail, hotmail or icloud) . If you have not received a confirmation email please check your spam-folder. If you cannot find your email there, contact us via info@fruitlook.co.za and we will help you.



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STEP 2

Place your field orders

A. New field orders

B. Duplicate fields from other seasons

C. Order single field from field database

D. Delete fields from your account

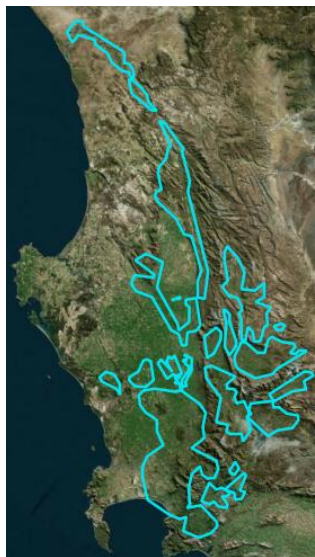


PLEASE NOTE: AVAILABILITY OF DATA DIFFERS PER YEAR

The monitoring area of FruitLook expanded over the years. Data is ONLY available for the year of choice during the order process if it was captured inside the monitoring area of the respective FruitLook season.

The following seasons are available:

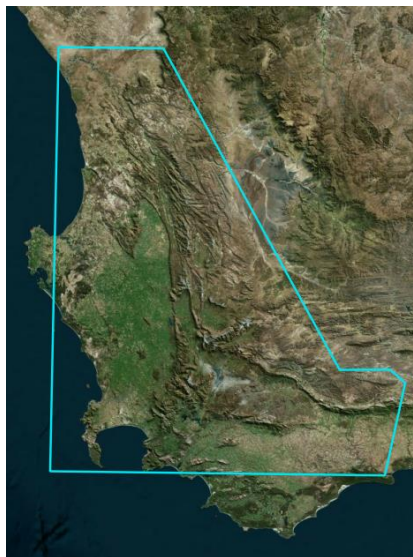
2010-11 to 2014-15



2015-2016



2016-2017



Current extent available from 2017-18





Step 2: Place your field orders


A. New field orders

1. Select [“Add new field”](#) on the homepage






This button will open the screen shown on the right.

2. Select how you want to delineate your fields:
 - a) Draw
 - b) Select a plot (default)
 - c) via a Shapefile


**Shopping cart is empty: Draw fields/areas**

Enter your zip, streetname and place or coordinates (lat, lng).

Draw  Select a plot  Shapefile 

Hybride Kaart

Zoom in to select a plot



Size in ha: 0 Distance to last point: 0 meter

Give the field's name

Give the field's category

Choose a crop

Of which season would you like to receive data?

☐ 2010-11

☐ 2011-12

☐ 2012-13

☐ 2013-14


☐ 2014-15


☐ 2015-16

☐ 2016-17

☐ 2017-18

☒ 2018-19

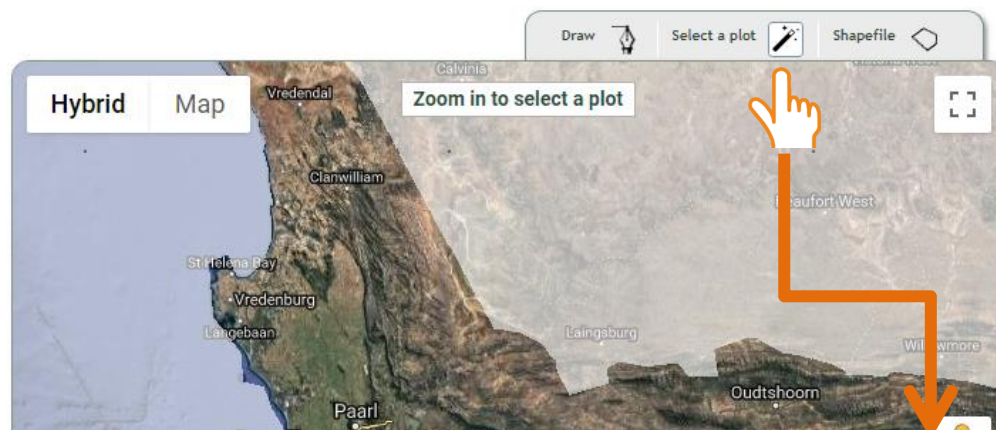


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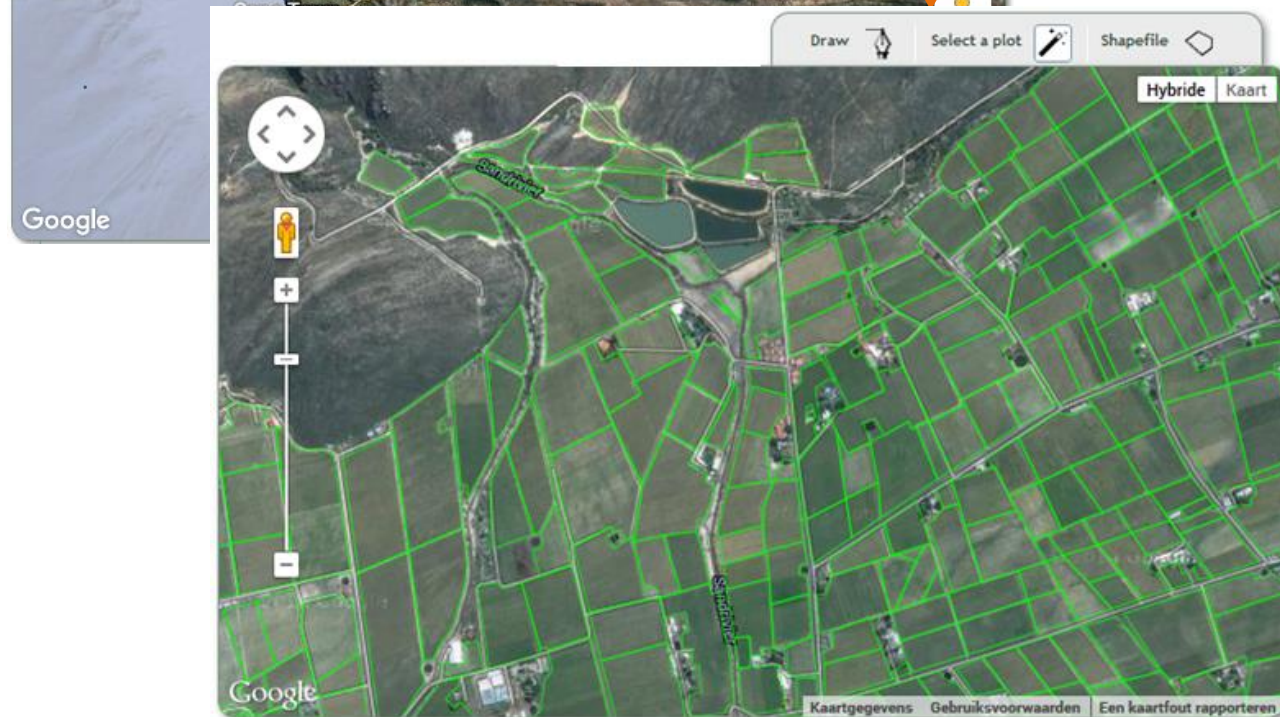


Step 2.A.a Select a plot

1. Navigate to your field *via* the viewer. You can also fill in your address in the address bar above the map. Keep the “, ZA” at the end as there could be a town/area in another part of the world. Zoom in until the green field boundaries appear.
2. Once the green field boundaries appear you can select your field by a click of your mouse > if required you can alter field boundaries by moving the white dots.
3. Fill in a field name. Use the preferable convention {cultivar name} followed by {block name/number}
4. Then, add a category (e.g. Farm name) select a crop type and the seasons you want to order data for.
5. Select “Add to Cart” at the bottom of the screen to add your field to your shopping cart.



Zoom in to your field until you see the green field boundaries appear.





Step 2.A.b The “draw” tool

1. Select “Draw” to manually draw in the boundaries of your field.
2. Zoom to your field using the viewer. You can also fill in your address in the address bar above the map
3. To draw your field, you “click” along the borders of the field. Once you have completed the drawing, you can still make changes by moving the white dots.
4. Once you are satisfied, fill in a field name, category, crop type and the season(s) of interest.
5. Click the “Add to cart” button.

Draw Select a plot Shapefile

Hybrid Map

Minimum size of a block is 0,5ha

Size in ha: 3.07 Distance to last point: 0 meter Remove field

Give the field's name *

Give the field's category

Choose a crop *

Of which season would you like to receive data?

☐ 2010-11 ☐ 2015-16

☐ 2011-12 ☐ 2016-17

☐ 2012-13 ☐ 2017-18


☐ 2013-14 ☒ 2018-19


☐ 2014-15

Add to cart



Step 2.A.c Adding fields using a Shapefile

1. Select “Shapefile” in the “Add your field”-screen ->  if you are interested in uploading multiple fields at once.
2. A new screen will open with instructions to upload a shapefile successfully. Please follow these carefully.
3. After compressing your shapefile into a zip file, upload it using the “Choose File” option, followed by “Import”.
4. If you require help with this, please contact us.



Import your shapefile


FruitLook allows you to upload a shapefile (<https://en.wikipedia.org/wiki/Shapefile>) with multiple fields. All fields will be read from the shapefile. Subsequently you can enter/alter a name, crop and field category and select the seasons for each field.

The shapefile needs to meet the following requirements:

1. The shapefile must contain POLYGONS;
2. The shapefile needs to be saved in geographic coordinates (long, lat; WGS84; EPSG: 4326);
3. No lines of a polygon may overlap;
4. The shapefile cannot contain polygons with a gap in the polygon itself;
5. The shapefile needs to be provided in ZIP format, containing at least a .shp, a .shx and a .dbf file; You can download the following example: [example.zip](#)
6. The shapefile must contain the following columns (Column names must be equal to the below):
 - ◊ FieldName
 - Name the field according to your preference
 - ◊ Crop
 - The crop name must be similar to the names used on FruitLook. Click [here](#) for a list of the crops that are available on FruitLook
 - ◊ Category
 - Provide field categories according to your preference
7. The file must be in UTF-8 encoding file to be usable.

If you need help using this new functionality, please contact us via info@fruitlook.co.za

Shapefile (.zip)



No file chosen *



Step 2.A.c Adding fields using a Shapefile

1. Once you pressed “upload” more details will appear where you can select the season(s) you want to order data for. Once you have selected these, click “Add to cart”

Select the season(s) you want to order data for

☐ 2010-11
☐ 2011-12
☐ 2012-13
☐ 2013-14
☐ 2014-15
☐ 2015-16
☐ 2016-17
☐ 2017-18
☐ 2018-19

Back to draw field

Add to cart



Field details

Size in: 21.3 ha

Name:

Category:

Crop:

Size in: 20.9 ha

Name:

Category:

Crop:

Size in: 20.6 ha

Name:

Category:

Crop:

Size in: 12.4 ha

Name:

Category:

Crop:

Back to draw field

Add to cart



2. All the shapes field details will appear below where you can review the name, category and crop and make the necessary changes, if needed, before clicking on “Add to cart”.



Step 2: Place your field orders

A. New field orders

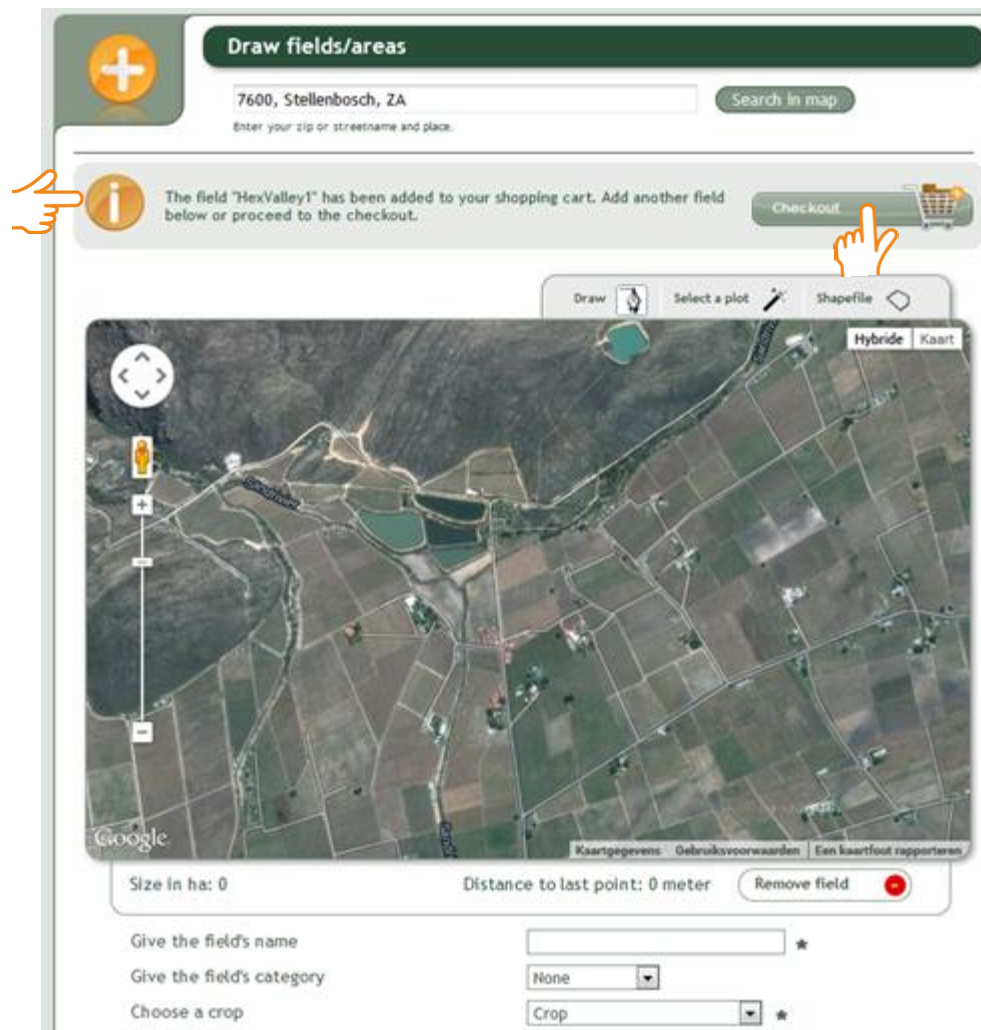
1. After pressing “Add to cart” a message will appear saying*

“The field “X” has been added to your shopping cart. Add another field below or proceed to the checkout”

2. You can either choose to:

- a) delineate a new field and add this one to the cart as well. This is done through the same steps as described in the previous slides.
- b) Or proceed to the “Checkout”. This will open a new screen, which contains the shopping cart showing your field orders.

* *except when loading via a shapefile which will take you directly to “Checkout”*

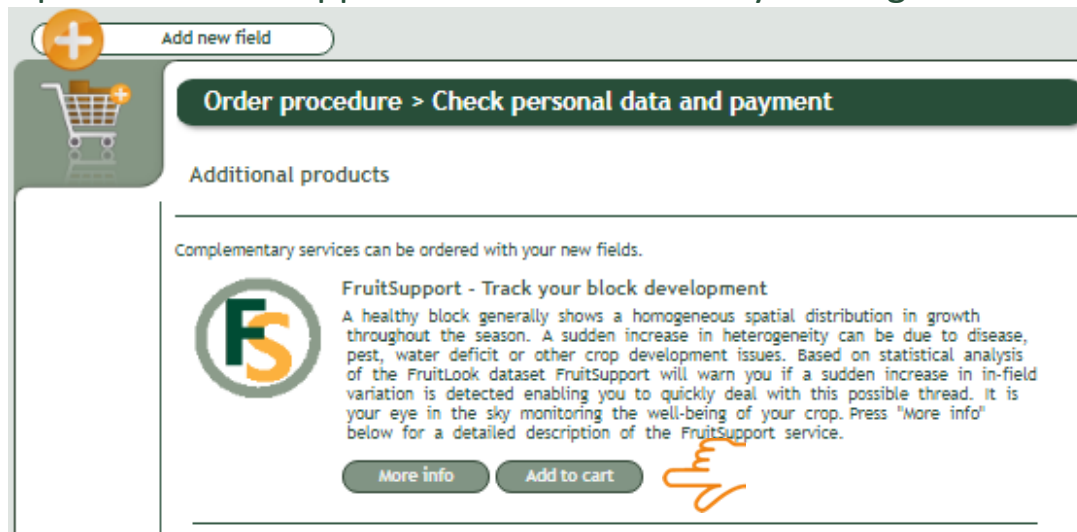




Step 2: Place your field orders

A. New field orders – Additional product (optional) - FruitSupport

1. Once you clicked on “Checkout” you access the “Shopping cart”. Here you will see (right at the top) the Additional product: FruitSupport. Subscribe to this by clicking on “Add to cart”.



2. Select the fields you want FruitSupport to assist with. Scroll down the list and click on “Add to cart”. A field can only be added once.

<input type="checkbox"/>	Bulida_AP4jt (2018)	2.3 ha	R 0,00
<input type="checkbox"/>	Cab Sav_01 (2018)	1.6 ha	R 0,00
<input type="checkbox"/>	Cabernet_02 (2018)	1.9 ha	R 0,00

This field is already purchased. You CANNOT order this field again.


3. Note: FruitSupport is only available in-season, for the current season. Read more about it on [page 40](#).



Step 2: Place your field orders

A. New field orders

By clicking “Checkout” you access the shopping cart. Here, you have two options:

- 1) You continue adding more fields by clicking the  **Add more fields** button. By pressing this button you will return to the “Add your field”-screen.
- 2) You are done adding fields and want to order your data:
 - Select “I agree with the terms” (there will be 2 if you added the FruitSupport)
 - Press “Order”

A pop-up will appear to thank you for your order. Your products will be available in “MyFields Overview” in maximum 30 minutes (*continue to Step 3 of this Manual*)

Note: After you have placed your order you will receive an email with an invoice for your order, indicating that the data is provided free of charge (cost = 0 Rand).

Please check the data below carefully before you finish the order.

Company name:	FruitLook	Address:	Hammarsland Road Launchlab
First name:	Annaline	Postal code:	7599
Infix:		City:	Stellenbosch
Last name:	Smith	Country:	South Africa

[edit data](#)

Description	Field(s)		Price
Pinotage_1 Season: 2015-16 Crop: Red wine grape	Pinotage_1	1	FREE
Pinotage_1 Season: 2016-17 Crop: Red wine grape	Pinotage_1	1	FREE
Pinotage_1 Season: 2017-18 Crop: Red wine grape	Pinotage_1	1	FREE
Pinotage_1 Season: 2018-19 Crop: Red wine grape	Pinotage_1	1	FREE
FruitSupport - Track your block development	Pinotage_1	1	FREE
Estimated Worth			ZAR 3,480,00

Total excl. VAT:	ZAR	0,00
VAT:	ZAR	0,00
Total incl. VAT:	ZAR	0,00

The Western Cape Department of Agriculture funds FruitLook to support (water) efficient farming by provision of open satellite data products. The estimated value of Fruitlook is ZAR 150 per hectare.

Terms and conditions

- ☐ I agree with the [terms](#) *
- ☐ I agree with the [terms](#) of Fruitlook Specialist (eLEAF). *

 **Add more fields**

Order



Step 2: Place your field orders

B. Duplicate fields from other seasons

You can reorder fields from season to season so you don't have to draw in your fields again. To do so:

1. Go to your "MyFields Overview"-page or by clicking on "MyFields".
2. Select "Add fields from other seasons" in the submenu at the bottom of the page.
3. Select the season you want to copy fields from and the season(s) you want to copy these fields to. All fields of this season, with the same crop type and category, will be duplicated to your season of interest.
4. Once you have selected your season(s) press "Add fields". This will instantly move you to the shopping cart.
5. In the shopping care you cannot change field outlines, crop types, etc. You can however, remove fields from the ordering list by pressing the -button behind each specific field.
6. When satisfied, select "I agree with the terms" and subsequently press "Order" to order all your fields for the new season.
7. If you are ordering a new season – remember to add FruitSupport as well.

Manual

FruitLook Team

Modify parameters

Smart export field data

Delete fields from list

	Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [kilogram per m3 of water]
Pinotage_A	647	1.76	15.1	4.22
Pinotage_B	736	1.30	16.6	4.40
Pinotage_J	931	1.83	18.2	5.06
Pinotage_L	652	2.47	14.2	4.47

+

Add single field from database

+

Add a new field

+

Add fields from other seasons

Directly order data based on other seasons' field boundaries

Select the season to copy fields from. All fields, with the same crop and advisor, will be added to your shopping cart. The fields can not be edited, however you can remove fields from the shopping cart before finalizing the order.

Select season to copy fields from

2017-18 ▾

Select season(s) to copy the fields to

☐ 2010-11 ☐ 2011-12 ☐ 2012-13 ☐ 2013-14 ☐ 2014-15 ☐ 2015-16 ☐ 2016-17 ☐ 2017-18 ☐ 2018-19

Add fields

Description	Field(s)	Price
<div>Amandelrivier Season: 2014-15 Crop: Peach</div>	Amandelrivier	ZAR 1.215,00



Step 2: Place your field orders

C. Order single field from field database

1. Go to your “MyFields Overview”-page or by clicking on “MyFields”.
2. Select “Add single field from database” in the submenu at the bottom of the page.
3. This button will open your field database, which consists of fields ordered in past seasons (hence some repetitions).
4. If you want to order a field for the new season, go to this field and press “add this field”.
5. This will open the “Add your field”-page. You will see your field delineated. You can make adjustments if required. Make sure your field name is correct and your crop type and season are selected. Subsequently press “Add to cart”.
6. Follow the remaining order process.

Field overview 2018-19

Filter:
Year: 2018-19
Period: Most recent data
Category: All categories
Crop: All crops

Modify parameters
Smart export field data
Delete fields from list

	Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [Kilogram per m3 of water]
Autumn Gold 33	166	0.22	22.0	0.74
Autumn Gold Blok 34	293	0.24	24.4	1.16
Cabernet Sauv, BLOK N	719	0.18	24.7	2.86
Cambria Blok 19	1065	0.18	38.9	2.72
Cambria Blok 6	797	0.18	34.2	2.30
Cinsaut, BLOK H0	647	0.18	24.2	2.63
Early Red One 11B	828	10.7	22.0	3.63
Early Red One 8B	740	10.4	20.3	3.58
Fuji 7B	719	10.3	19.8	3.48
Fuji 8A	800	9.75	21.5	3.45
Gala 10A	966	8.96	22.5	4.26
Gala 11A	157	7.32	10.0	1.52
Gala 11C	864	9.92	23.6	3.45
Golden H3	675	10.8	17.2	3.67
Goldens 1B	1033	10.0	23.9	4.23
Merlot, BLOK C1	986	0.18	29.0	3.36
Merlot, BLOK E1	750	0.18	25.7	2.86
Midnight Blok 43	1305	0.18	42.0	3.12
Midnight Blok 44	1285	0.18	40.8	3.20

Add single field from database
Add a new field
Add fields from other seasons

Autumn Gold 33
Crop: Citrus
Cultivar:
Size: 2.7 ha
add this field

Autumn Gold 33
Crop: Citrus
Cultivar:
Size: 2.7 ha
add this field

Autumn Gold Blok 34
Crop: Citrus
Cultivar:
Size: 1.4 ha
add this field



Step 2: Place your field orders

D. Delete fields from your account

1. In the “MyFields Overview” page, select “Delete fields from list”.

2. Select the field(s) you want to delete by ticking the box across from the field name. Scroll to the bottom of the list and click on **Confirm Deletion**.

3. A pop-up will appear. Select “Ok” to delete the selected field(s), or “Cancel” to not delete the field. After you press “Ok” the field will be deleted for the selected season.

Note: If you accidentally delete a field you can re-order it again.

Modify parameters
Smart export field data
Delete fields from list

		Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [Kilogram per m3 of water]
Autumn Gold 33	<input type="checkbox"/>	166	0.30	22.0	0.74
Autumn Gold Blok 34	<input type="checkbox"/>	293	0.29	24.4	1.16
Cambria Blok 19	<input checked="" type="checkbox"/>	1065	7.47	38.9	2.72
Cambria Blok 6	<input type="checkbox"/>	797	7.31	34.2	2.30
Midnight Blok 43	<input checked="" type="checkbox"/>	1305	6.37	42.0	3.12
Midnight Blok 44	<input checked="" type="checkbox"/>	1285	0.46	40.8	3.20
Nawel Blok 1.1	<input type="checkbox"/>	1499	2.90	47.0	3.08
Nawel Blok 1.2	<input type="checkbox"/>	1422	2.04	45.1	3.15
Nawel Blok 1.3	<input type="checkbox"/>	1380	2.25	45.7	2.97
Palmer Blok 37	<input type="checkbox"/>	1358	0.61	44.8	2.99
Palmer Blok 38	<input type="checkbox"/>	1332	0.21	42.2	3.20
Robyn Blok 3	<input type="checkbox"/>	1129	0.26	39.8	2.82
Robyn Blok 30	<input type="checkbox"/>	234	0.25	22.9	1.00
Tango Blok 48	<input type="checkbox"/>	573	0.24	18.9	3.00
Tango Blok 49	<input type="checkbox"/>	578	0.20	18.7	3.06

Confirm Deletion

Are you sure you want to delete the selected fields?

All data of the selected fields will be deleted accordingly.

This cannot be undone!

Ok Cancel



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STEP 3

Analyse your fields

A. MyFields Overview

B. MyFields

C. MyField Analysis



Step 3: Analyse your fields

To view your ordered data, select “My fields” > this will direct you to the MyFields Overview page.

The screenshot shows the FruitLook website interface. At the top, there is a navigation bar with the FruitLook logo, a home icon, and links for "See more..", "Consultants", "My fields" (highlighted with a hand cursor), "My details", "Log out", and a "Welcome FruitLook Team" button. Below the navigation bar, the main content area is divided into three columns. The left column contains buttons for "Add your field", "Register for free", and "View demoblocks", followed by a newsletter subscription section and a news section. The center column features a large image of a corn cob with the text "Zoom in on your crop" and a hand cursor pointing at it. Below the image are tabs for "GENERAL", "GROWTH", "MOISTURE", "MINERALS", and "RETURNS". The right column contains buttons for "Contact / Helpdesk", "FruitSupport", "Shopping Cart", "Manual", and "FruitLook Team". At the bottom, there is a footer with logos for the Western Cape Government and eLEAF, and a line of text providing contact information and links to privacy and general conditions pages.

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See more.. Consultants **My fields** My details Log out Welcome FruitLook Team

+ Add your field

▶ Register for free

View demoblocks

Newsletter: Subscribe now!
Fill in your e-mailaddress
Send

News
FruitLook Training
Thursday 6 December
You are welcome to register for our FruitLook Basics Training (09.00 - 12.00) on Thursday 6....
Read more

FruitLook 2018-19 newsletters
December 4, 2018 - In the newsletter much useful information can be found about....
Read more

Zoom in on your crop

GENERAL GROWTH MOISTURE MINERALS RETURNS

Welcome to FruitLook

Want to know more? Press [HERE](#)

The FruitLook service is funded by the [Western Cape Department of Agriculture](#). The project is executed by [eLEAF](#) from the Netherlands in cooperation with South African partners.

Western Cape Government Agriculture eleaf

eLEAF | Hesselink van Suchtelenweg 6 | 6703 CT Wageningen | The Netherlands | info@fruitlook.co.za | [Privacy](#) | [General conditions](#)



Step 3: Analyse your fields

A. MyFields Overview

MyFields Overview

- The table shows the dataset values for the last week
- You can view the field details in “MyFields” by clicking the field within the table.

Filter the fields you see in the table, for example only show apricots, or only the fields of a certain category. You can also view different weeks.

Change the datasets visible in the table. You can choose a minimum of 1 and a maximum of 5.

Smart Export of Field Data to Excel: Further explained in Step 4 of this Manual.

Add new field

MYFIELDS OVERVIEW

MYFIELD ANALYSIS

MY FIELDS

Field overview 2018-19

Filter:

Year: 2018-19

Period: Most recent data

Category: All categories

Crop: All crops

Modify parameters

Smart export field data

Delete fields from list

You can sort fields according to ascending or descending values

	Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [Kilogram per m ³ of water]
	^ v	^ v	^ v	^ v
Autumn Gold 33	166	0.30	22.0	0.74
Autumn Gold Blok 34	293	0.29	24.4	1.16
Cabernet Sauv, BLOK N	719	0.71	24.7	2.86
Cambria Blok 19	1065	7.47	38.9	2.72
Cambria Blok 6	797	7.31	34.2	2.30
Cinsaut, BLOK H	647	0.44	24.2	2.63
Early Red One 11B	828	10.7	22.0	3.63
Early Red One 8B	740	10.4	20.3	3.58
Fuji 7B	719	10.3	19.8	3.48
Fuji 8A	800	9.75	21.5	3.45
Gala 10A	966	8.96	22.5	4.26

Contact / Helpdesk

FruitSupport

Checkout

Manual

FruitLook Team



+

Add new field

MYFIELDS OVERVIEW

MYFIELD ANALYSIS

MY FIELDS

Field overview 2018-19

Filter:

Year: 2018-19

Period: Most recent data

Category: All categories

Crop: All crops

Select the most recent year, if you want to analyse the recent years' data.

All fields

Apple Farm

Citrus Farm

Wine Farm

Early Red One 11B

Early Red One 8B

Fuji 7B

Fuji 8A

Gala 10A

Gala 11A

Gala 11C

Golden H3

Goldens 1B

Pink Lady A1

Pink Lady B1

Modify parameters

Smart export field data

Delete fields from list

	Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [Kilogram per m3 of water]
Autumn Gold 33	166	0.30	22.0	0.74
Autumn Gold Blok 34	293	0.29	24.4	1.16
Cabernet Sauv, BLOK N	719	0.71	24.7	2.86
Cambria Blok 19	1065	7.47	38.9	2.72
Cambria Blok 6	797	7.31	34.2	2.30
Cinsaut, BLOK H	647	0.44	24.2	2.63
Early Red One 11B	828	10.7	22.0	3.63
Early Red One 8B	740	10.4	20.3	3.58
Fuji 7B	719	10.3	19.8	3.48
Fuji 8A	800	9.75	21.5	3.45
Gala 10A	966	8.96	22.5	4.26
Gala 11A	157	7.32	10.0	1.52



Step 3: Analyse your fields

B. MyFields

By selecting a specific field through “MyFields” or “MyFieldsOverview” you can view the details of individual fields.

You can change your field name and category here

You can change your crop type here



Print this page



Pinotage_J

Wine Farm

Crop : Red wine grape

Size (ha)

: 7.2

Crop variety : Pinotage

(Expected) Harvesting date

:

Soil type :

Year of planting :

Field details can be added here

MY SELECTION

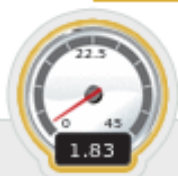
Growth

Moisture

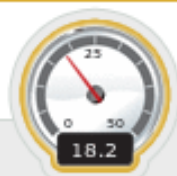
Minerals



Biomass production



Evaporation deficit



Actual evapotranspiration



Biomass water use efficiency





Step 3: Analyse your fields

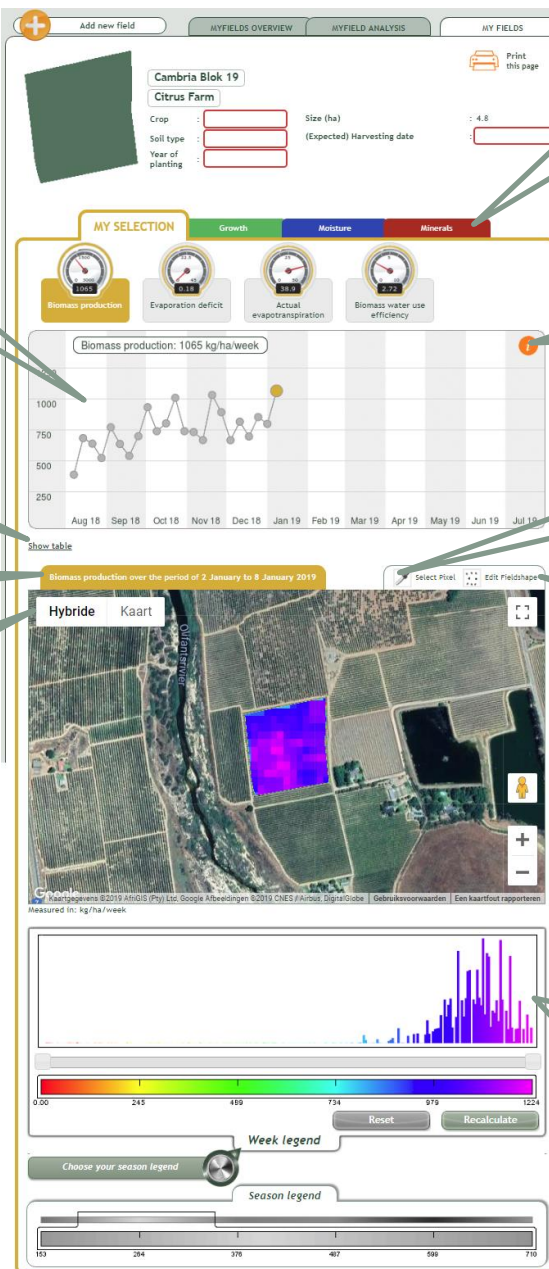
B. MyFields via MyFields Overview

Average field values per week

Toggle between table or graph view

Description of map

Change background view to satellite or hybrid (combination of satellite and map) for better orientation



Select "Growth", "Moisture" or "Mineral" data products. "My Selection" is the same as the datasets you choose to view in MyFieldsOverview

Click here for a short description of what the dataset means.

Select a specific pixel to see its exact value

Select to edit your fieldshape. Your fieldshape cannot be changed more than 5%.

The histogram displays the variation in your field. Would like to see variation in your fields more clearly? You can adjust the legend by moving the sliders below the histogram. Press "Recalculate" to alter the legend, press "Reset" to go back to the original scale.

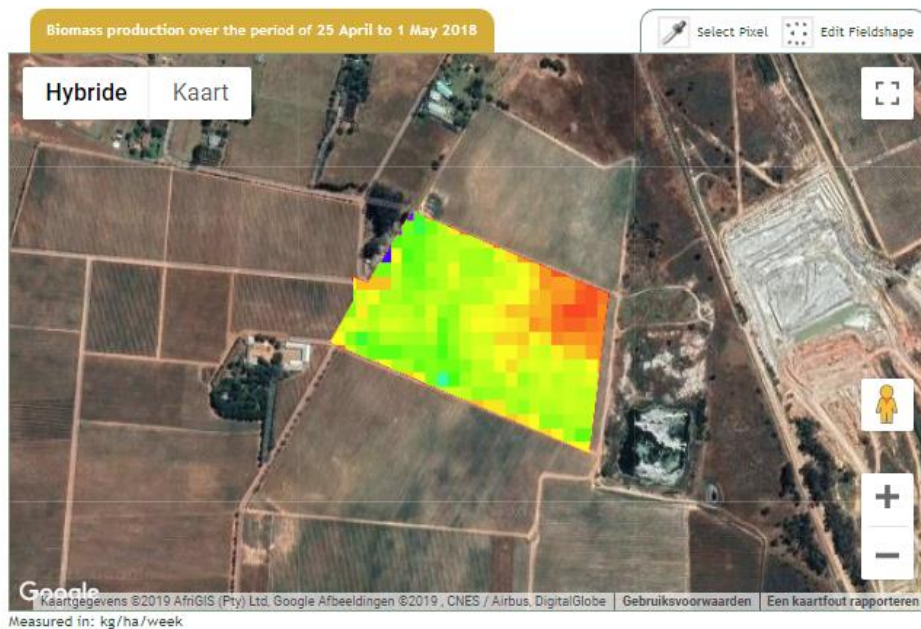


Step 3: Analyse your fields

B. MyFields via MyFields Overview



Show table



Temporal variation:

Each dot represents the average value (*calculated from the different colours in the picture below*) of your field for a specific week.

You can select each dot to see the spatial variation in the picture for that specific week.

Spatial variation:

Shows an overview of your field. Can be used to detect heterogeneity in your field.



Step 3: Analyse your fields

C. MyField Analysis

- “MyField Analysis” allows you to compare different datasets and fields over time and for different years.
- In “MyField Analysis” you can use:
 - a) “Graph Comparison” – “graphical curves”
 - b) “Field Comparison” – “picture comparison”
- In the next slides both functionalities are explained.

The screenshot displays the 'MYFIELD ANALYSIS' tab in a web application. The interface includes a sidebar with a magnifying glass icon and a top navigation bar with tabs for 'Add new field', 'MYFIELDS OVERVIEW', 'MYFIELD ANALYSIS', and 'MY FIELDS'. The 'MYFIELD ANALYSIS' tab is active, showing two main sections: 'Graph comparison' and 'Field comparison'. Both sections feature a form with dropdown menus for 'Select season' (2018-19), 'Select your field' (1/3 NAD), 'Select your category' (All categories), and 'Select your parameter' (Biomass production). The 'Graph comparison' section has an 'Add to graph' button, while the 'Field comparison' section has an 'ADD' button. A hand cursor is pointing at the 'Select your category' dropdown in the 'Graph comparison' section. On the right side, there is contact information: (+27) 074 322 6574, help@fruitlook.co.za, and F.A.Q., along with a 'Print this page' button.

Graph comparison

Select season: 2018-19
Select your field: 1/3 NAD
Select your category: All categories
Select your parameter: Biomass production
Add to graph

Field comparison

Select season: 2018-19
Select your field: 1/3 NAD
Select your category: All categories
Select your parameter: Biomass production
ADD

Print this page

EXPORT CSV



Step 3: Analyse your fields

C. MyField Analysis – Graph Comparison

Use the “Graph comparison” tool in “MyFields Analysis” to view and compare temporal changes of various fields in one graph. It is important to select the different “tabs” in the right order, otherwise it will reset the previous sections. Start from the top left and end bottom right.

Graph comparison

The interface is a light gray rounded rectangle containing four dropdown menus and an 'Add to graph' button. The dropdowns are arranged in a 2x2 grid. Callout boxes with numbers 1 through 4 point to each dropdown. Callout 1 points to the 'Select season' dropdown, which shows '2015-16'. Callout 2 points to the 'Select your category' dropdown, which shows 'All categories'. Callout 3 points to the 'Select your field' dropdown, which shows '1'. Callout 4 points to the 'Select your parameter' dropdown, which shows 'Biomass production'. The 'Add to graph' button is a dark green rounded rectangle with white text.

1. Select season

2. Select field category

3. Select Field

4. Select dataset

Select season
2015-16

Select your field
1

Select your category
All categories

Select your parameter
Biomass production

Add to graph

By pressing “Add to graph”, the temporal development of the selected datasets of the selected field is depicted in a graph. Within the graph you can view simultaneously:

- Multiple fields
- Multiple seasons
- A **maximum** of two datasets



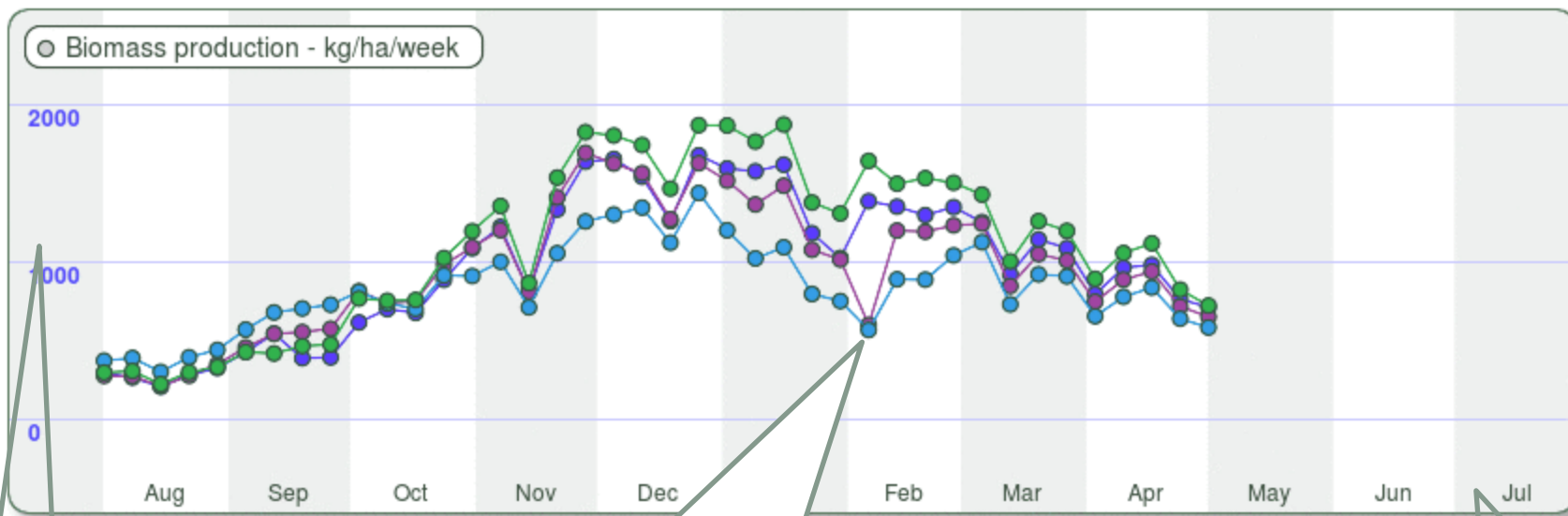
Step 3: Analyse your fields

C. MyField Analysis – Graph comparison

In this example three fields from the Grabouw area are compared for the 2017-18 season. The deviating trend in field Grabouw3 is clearly visible.

Legend

Grabouw1 - 2017-18	Biomass production	x	Grabouw2 - 2017-18	Biomass production	x
Grabouw3 - 2017-18	Biomass production	x	Grabouw4 - 2017-18	Biomass production	x



Vertical axis of first dataset displayed; in this case biomass production

The dots display the value per dataset through time. By moving over the dots field information for that specific period will appear. By clicking the dot the spatial overview of that field at that specific time will open in "MyFields". Note, these graphs are exactly the same as those displayed under "MyFields"

Timeframe for data display – anywhere between Aug and Jul

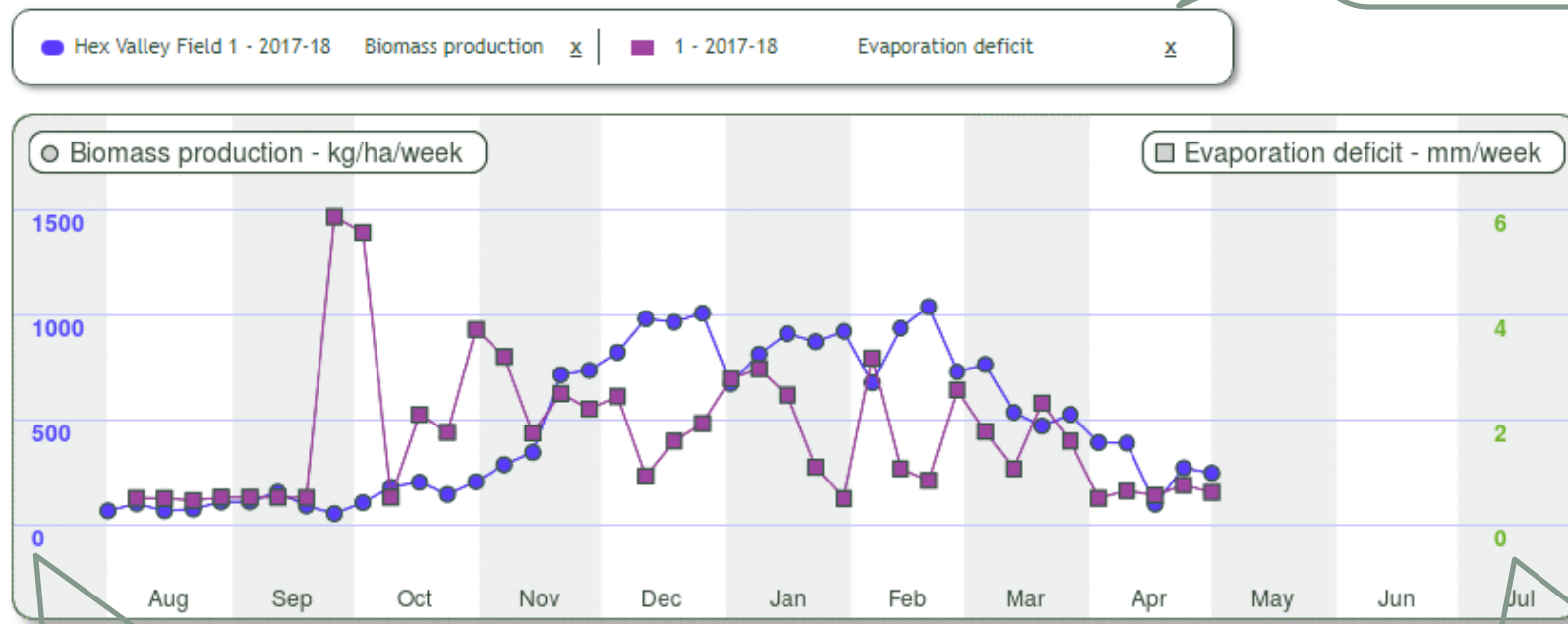


Step 3: Analyse your fields

C. MyField Analysis – Graph comparison

In this example Biomass Production and Evapotranspiration Deficit of a field in Hexriver Valley are compared for the 2017-18 season. The decreases in Biomass Production corresponds clearly with the increases in Evapotranspiration Deficit.

Legend; different datasets of the same field always have the same color. The Biomass Production is displayed with circular icons, the Evapotranspiration Deficit with square icons.



Vertical axis of first dataset; in this case Biomass Production in kg/ha/week

Vertical axis of second dataset; in this case Evapotranspiration Deficit in mm/week



Step 3: Analyse your fields

C. MyField Analysis –Comparing different fields

Use the “Field comparison” tool in “MyFields Analysis” to view and compare spatial and temporal changes in various fields, through pictures. It is important to select the different tabs in the right order otherwise it will reset your selections.

Field comparison

The interface shows a grey rounded rectangle containing four dropdown menus and an 'ADD' button. The first dropdown is labeled 'Select season' and has '2018-19' selected. The second is 'Select your field' with '1/3 NAD' selected. The third is 'Select your category' with 'All categories' selected. The fourth is 'Select your parameter' with 'Biomass production' selected. An orange plus icon is on the left, and a green 'ADD' button is on the right.

1. Select season
2. Select field category
3. Select Field
4. Select dataset

By pressing “Add”, the spatial development of a specific dataset is depicted through time in the “MyField Analysis”-page (next slides).

Within the display you can simultaneously view:

- Multiple fields
- Multiple seasons
- With no limit on datasets



Step 3: Analyse your fields

C. MyField Analysis – Field Comparison

To start a new analysis, remove the dataset overview of this field

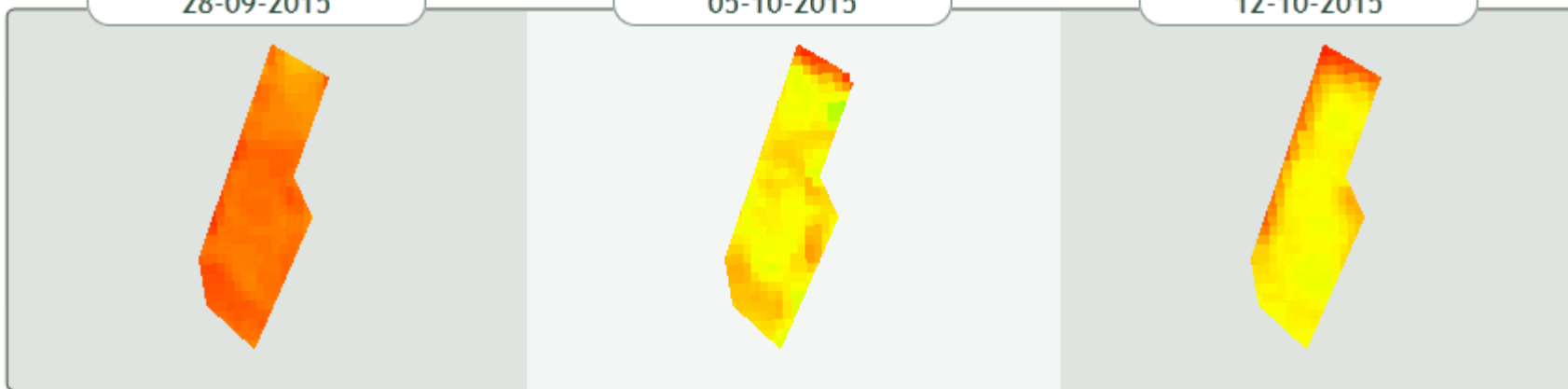
Grabauw2 - 2015-16 - Biomass production (kg/ha/week)

Remove this overview

28-09-2015

05-10-2015

12-10-2015



Reset

Recalculate

Move to the previous week

Would like to see variation in your fields more clearly? You can adjust the legend by moving the sliders below the histogram. Press "Recalculate" to alter the legend, press "Reset" to go back to the original one."

Note: The maximum values in your "graphs" displayed in the "MyField Analysis – Graph comparison", will provide an indication of how to adjust the values.

Move to the next week

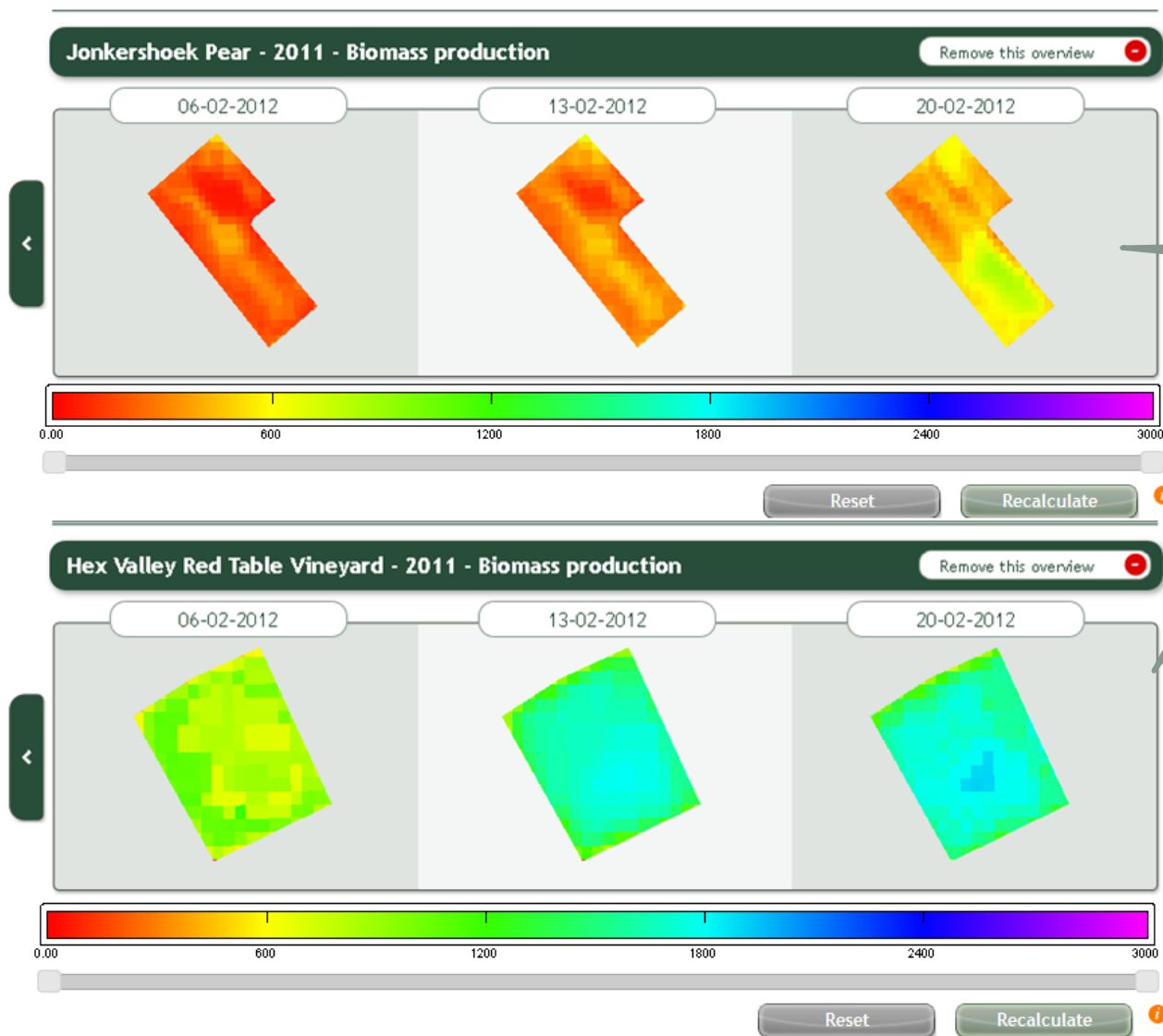


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Step 3: Analyse your fields

C. MyField Analysis – Field Comparison



Compare two fields

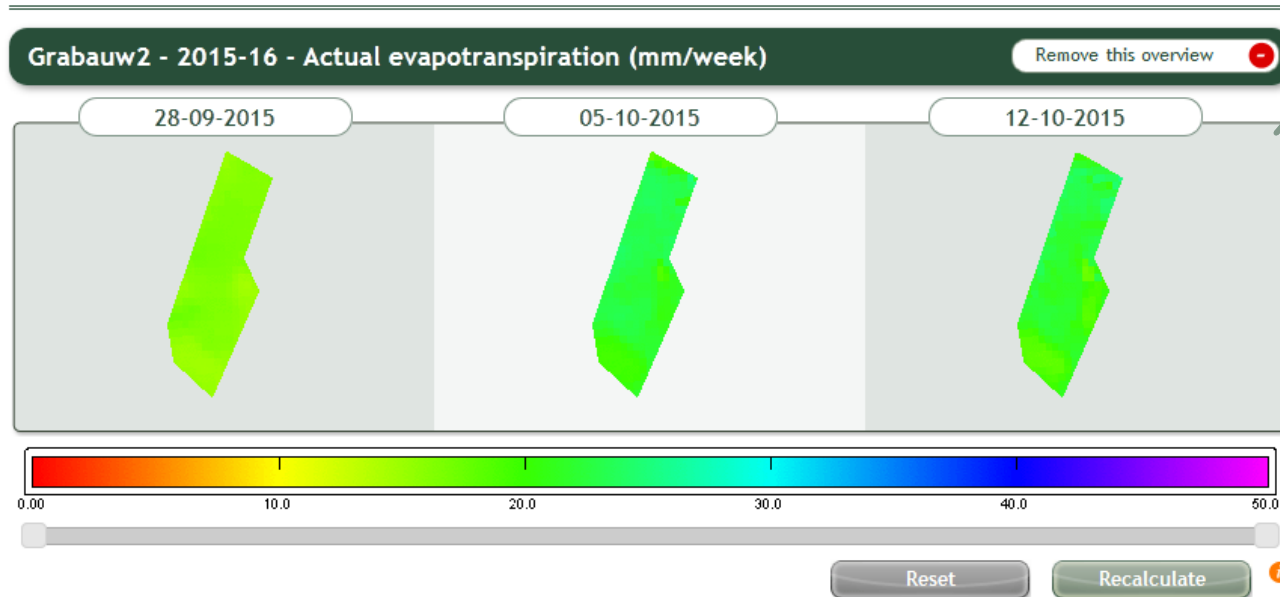
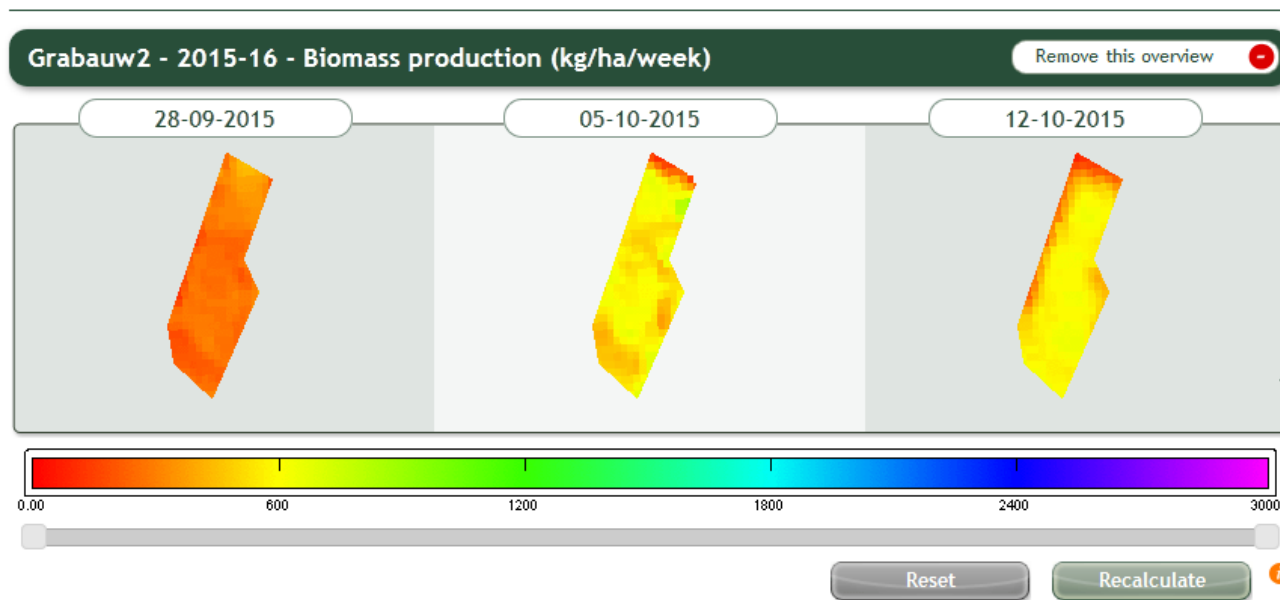
Some Notes:

Week 06-02-2012:
Low(er) biomass production
in both fields
Week 13-02-2012:
Low(er) biomass production
in Jonkershoek only
Week 20-02-2012:
Biomass production
increased in both fields
Note the spatial variation
visible



Step 3: Analyse your fields

C. MyField Analysis – Field Comparison



Compare two datasets

Typically, a strong relationship exists between biomass production and actual evapotranspiration. Again, note the spatial variation visible.



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STEP 4

Export data to Excel or other software




Step 4: Export data to Excel or other software

You export your field data to Excel in the “MyFields”-overview page. This is ideal if you want to integrate the FruitLook data with your own datasets (e.g. Production, etc.).

To do so :

1. Go to “MyFields Overview”.
2. Select “Smart export field data”.
3. A pop-up will appear allowing you to select the appropriate season, field(s) and datasets.

Crop: All crops



Modify parameters

Smart export field data

Delete fields from list

	Biomass production [kg/ha/week]	Evaporation deficit [mm/week]	Actual evapotranspiration [mm/week]	Biomass water use efficiency [kilogram per m3 of water]
1/3 NAD	1377	1.17	33.3	4.07
1_Damkamp	1266	0.80	25.2	5.01
5/4	1060	0.55	27.5	3.85
Avo_004	1504	0.32	23.9	6.04
Avo_02	1600	3.78	30.6	5.17
Avo_03	1486	1.74	29.8	4.96
Beet_01	883	2.08	15.9	5.43
Blok 01-02	1208	0.44	20.9	5.53
Bon Cretien_04	1326	0.83	29.4	4.44



Step 4: Export data to Excel or other software

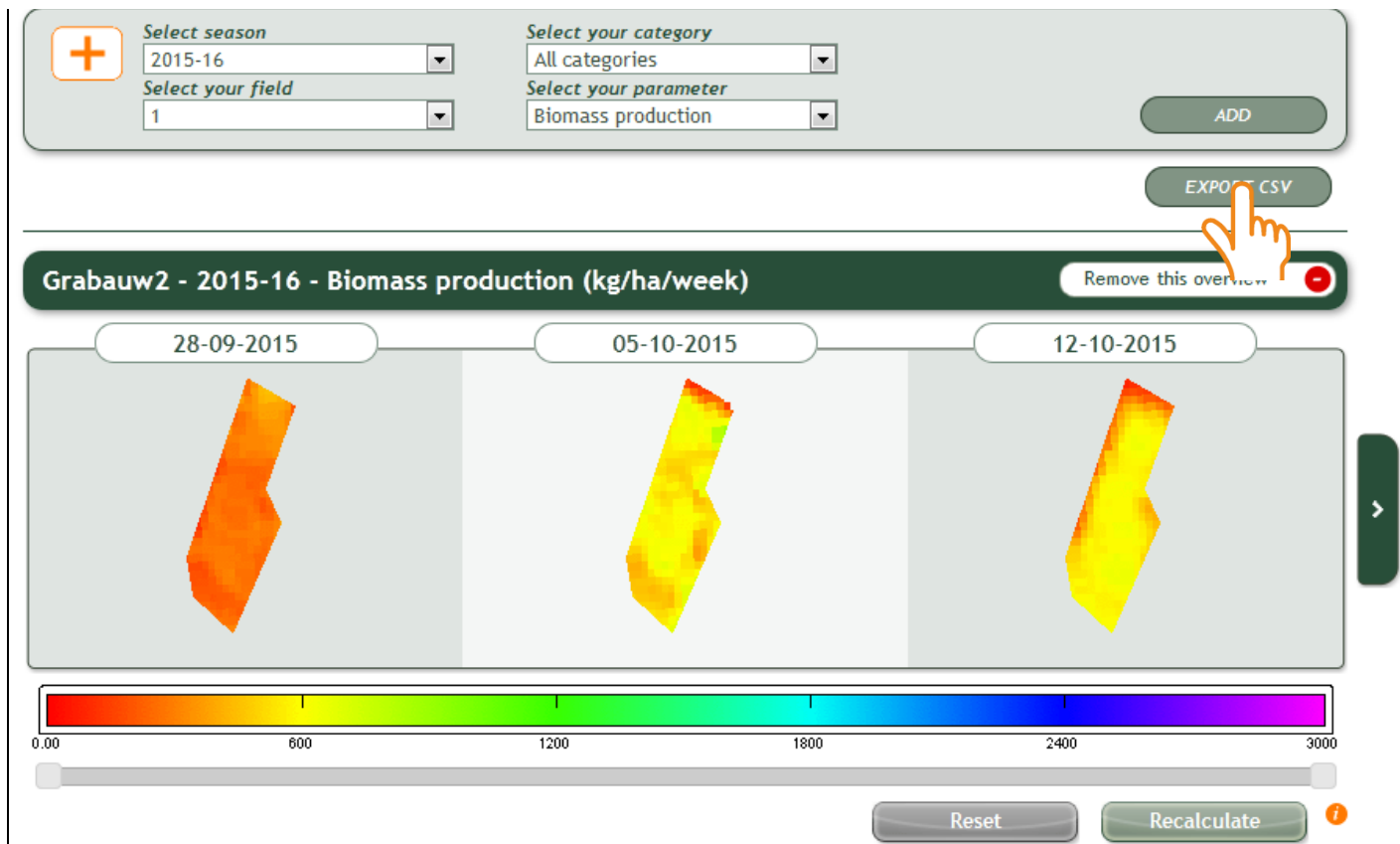
1. After selecting “Smart Export field data” a pop-up will appear where you select the appropriate season, field(s) and datasets. Note: you can only export the data from one season at a time.
2. After making your selection press “Export data” to export a .csv file of your selected field data.
3. This .csv file provides the average value per timestep for each dataset and field selected. Note: this data is equivalent to the data from each graph.



Step 4: Export data to Excel or other software

FruitLook data can be exported to Excel in “MyField Analysis” as well. To do so :

1. Go to “MyField Analysis”.
2. Add your field and datasets
3. Press “Export CSV” to export the displayed fields and datasets.
4. Open the produced .csv in Excel.





Step 4: Export data to Excel or other software

This describes how to open a .csv file in Microsoft Excel 2010+ for the first time. After opening the .csv in Excel:

1. Select the "Data" tab
2. Press "Text to Columns"
3. Select "Delimited" in the pop-up
4. Press "Next"
5. Select "Comma" as delimiter
6. Press "Finish"

The data is now presented in columns. Subsequently save your data in .xlsx format.

The first screenshot shows the 'Convert Text to Columns Wizard - Step 1 of 3' dialog box. The 'Data' tab is selected in the ribbon (1). The 'Text to Columns' button is highlighted (2). In the dialog, 'Delimited' is selected under 'Original data type' (3). A preview of the data is shown at the bottom.

The second screenshot shows the 'Convert Text to Columns Wizard - Step 2 of 3' dialog box. The 'Comma' delimiter is selected (5). The 'Next >' button is highlighted (4 in the first screenshot, 6 in the second). The 'Data preview' section shows the data correctly split into columns.

Advisor	Breeder id	Farmer surname	Farmer name	Zip farmer	City farmer
1292	Example	Test	7600	Stellenbosch	26584
1292	Example	Test	7600	Stellenbosch	26586



Step 4: Export data to Excel or other software

Pivot tables for seasonal analysis

The pivot functionality was developed due to a need to compare more than one parameter a week as well as the progress of various blocks over the season. This tool can be especially useful for your seasonal analysis. So how can you start using pivot tables yourself? There are three things needed (each header is a link, when clicked on the relevant document will open):

1. [The script](#): The pivot tables are created via a .bas-file, which has specified instructions on how this pivot table can be created from the FruitLook export. Please read the instructions (see next point) carefully before running the script (Pivotize.bas). Do not directly run it after downloading - you will see in the instructions where it is applicable.
2. [The Pivotize manual](#): The manual provides a step-by-step instruction to transform your FruitLook csv into an easy-to-use pivot table. If you need help, don't hesitate to contact us.
3. [An example](#): The charts are set up to compare the four weekly parameters and the four instantaneous parameters with each other. In the created document you can either view all 4 weekly parameters (Biomass production, Actual Evapotranspiration, Evapotranspiration Deficit, and Biomass Water Use Efficiency), or all 4 instantaneous parameters (Vegetation Index, Leaf Area Index, Upper Leaf Nitrogen, and Total Plant Nitrogen), as well as a summary of each of the parameters in their respective tabs. The graph page can be printed for reporting purposes with all the blocks in the 4 charts as the same colour allowing easy identification.

The pivot functionality was developed due to a need to compare more than one parameter a week as well as the progress of various blocks over the season. If you need any help, please do not hesitate to contact us via info@fruitlook.co.za or call us on (+27) 074 322 6574.



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STEP 5

FruitSupport



Step 5: FruitSupport

- FruitSupport is a complementary service as part of FruitLook, tracking growth variation in your block.
- A strong increase in variation in growth might indicate a problem, possibly affecting your yield. FruitSupport sends out a warning email at the end of a week (once the new FruitLook data has been updated online) if anomalies are detected.
- You can order FruitSupport per field using the [FruitSupport](#) service-tab on the homepage or when ordering fields.
- When using FruitSupport we invite you to provide us feedback via info@fruitlook.co.za.

PLEASE NOTE: FruitSupport is a support tool based on satellite information and not a replacement for in-field inspections.

The screenshot shows the FruitLook homepage. On the left, there are buttons for 'Add your field', 'Register for free', and 'View demoblocks'. Below these is a newsletter subscription form and a news section titled 'FruitLook Training Thursday 6 December'. In the center, a large banner reads 'Zoom in on your crop' with a background image of a corn cob and a satellite. Below the banner are tabs for 'GENERAL', 'GROWTH', 'MOISTURE', 'MINERALS', and 'RETURNS'. On the right, there are buttons for 'Contact / Helpdesk', 'FruitSupport', 'Shopping cart', 'Manual', and 'FruitLook Team'. A large blue arrow points downwards from the 'FruitSupport' button.

Complementary services can only be ordered in combination with existing fields.



FruitSupport - Track your block development

R 0,00

A healthy block generally shows a homogeneous spatial distribution in growth throughout the season. A sudden increase in heterogeneity can be due to disease, pest, water deficit or other crop development issues. Based on statistical analysis of the FruitLook dataset FruitSupport will warn you if a sudden increase in in-field variation is detected enabling you to quickly deal with this possible threat. It is your eye in the sky monitoring the well-being of your crop. Press "More info" below for a detailed description of the FruitSupport service.

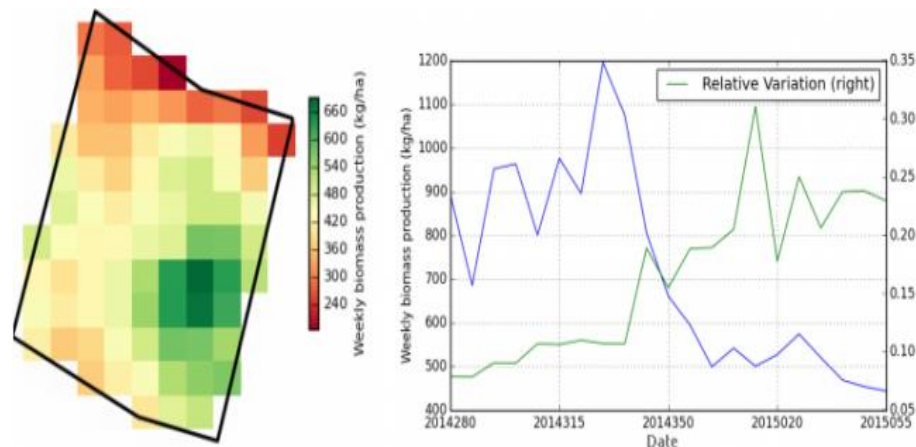
More info

Order



Step 5: FruitSupport

FruitSupport tracks the variation in growth throughout the growth season, depicted in the graph on the right. The development of variation through time is depicted in green. As can be seen this blocks shows a strong increase in relative variation from the middle of the growth season onwards, which might indicate a growth issue. This is even more likely considering the drop in biomass production, depicted on the left axis, which occurs simultaneously to this increase in variation.



October 1, 2015 - October 7, 2015

Dear User,

Last week FruitSupport has detected crop development anomalies in the following fields:

- 407JT/21-28020	- 407JT/12-28000
- 407JT/9-28049	- 249JT/13-15923
- 221KU/1-13026	- T6
- T1	- 131T/1-509

This might indicate sub-optimal growth in (parts of) your field which can have various reasons:

- | | |
|---------------------|----------------------|
| - Disease | - Water availability |
| - Plant nutrition | - Soil variation |
| - Extensive pruning | - Weeding |
| - Clearing | - Other factors |

We advise you to examine these fields further via FruitLook and/or in the field to take appropriate action if necessary.

Thank you for using FruitSupport!

FruitSupport is in the testing phase. We like to hear from you if the information on above fields was useful and correct. Please provide us feedback by replying to this email (via info@fruitlook.co.za).

[Unsubscribe](#)
[Disclaimer](#)

eLEAF BV | Hesselink van Suchtelenweg 6 | 6703 CT Wageningen | The Netherlands | info@fruitlook.co.za

If such an increase is detected, a warning email is send. An example email is depicted on the left.

Within this email you can click on the name of the detected blocks opening the FruitLook website for this specific block.

FruitSupport is run on a weekly basis after the weekly data products have become available on the FruitLook website. This means you will receive one email per week from FruitSupport.



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STEP 6

Get more information from FruitLook

- A. Background articles
- B. View demonstration fields
- C. Dataset descriptions
- D. Newsletter + Website news section
- E. Contact us!



Step 6: Get more information about FruitLook

A. Background Articles

Many articles have been written on (the use of) FruitLook through the last 10 years.

A selection of these articles can be found under “See more..” on the website

The screenshot shows the FruitLook website interface. At the top, there is a navigation bar with the FruitLook logo, a home icon, a "See more.." button (highlighted with a hand cursor), a "Consultants" button, and a dark green bar with "My fields", "My details", "Log out", and "Welcome Annaline Smith". Below the navigation bar, the main content area is divided into three columns. The left column contains buttons for "Add your field", "Register for free", and "View demoblocks", followed by a newsletter subscription form and a news section. The center column features a large banner titled "Zoom in on your crop" with a background image of a corn cob and a person, and a row of category buttons: GENERAL, GROWTH, MOISTURE, MINERALS, and RETURNS. Below the banner is a "Welcome to FruitLook" message and a link to "Want to know more? Press HERE". The right column contains buttons for "Contact / Helpdesk", "FruitSupport", "Shopping Cart", "Manual", and "FruitLook Team". At the bottom, there are logos for the Western Cape Government and eleaf.

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Home See more.. Consultants My fields My details Log out Welcome Annaline Smith

+ Add your field

▶ Register for free

View demoblocks

Newsletter: Subscribe now!
Fill in your e-mail address
Send

News
FruitLook Training Thursday 6 December
You are welcome to register for our FruitLook Basics Training (09.00 - 12.00) on Thursday 6....
Read more

FruitLook 2018-19 newsletters
December 4, 2018 - In the newsletter much useful information can be found about....
Read more

Zoom in on your crop

GENERAL GROWTH MOISTURE MINERALS RETURNS

Welcome to FruitLook
Want to know more? Press [HERE](#)

The FruitLook service is funded by the [Western Cape Department of Agriculture](#). The project is executed by [eLEAF](#) from the Netherlands in cooperation with South African partners.


Western Cape Government Agriculture eleaf




Step 6: Get more information about FruitLook

A. Background Articles

Each article can be opened by clicking the article name

**fruitlook.co.za**

 See more..

Consultants


My fields

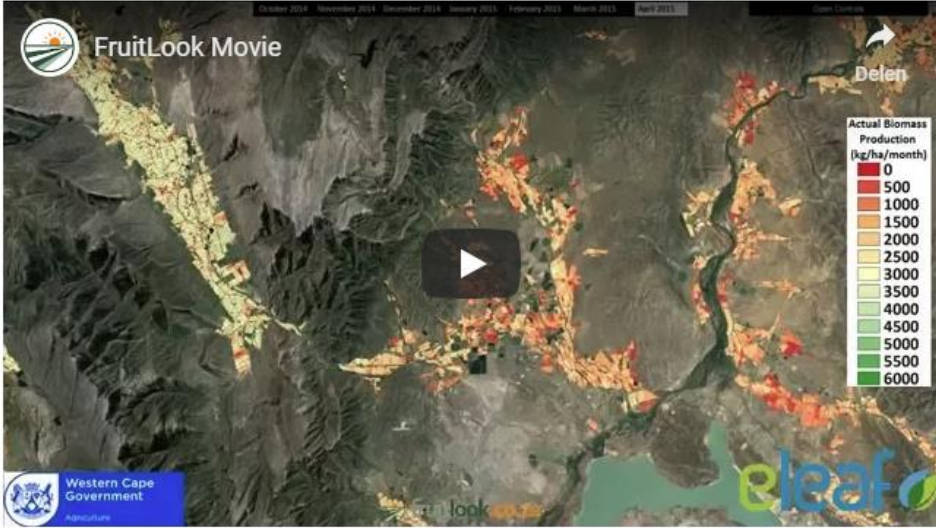
My details


Log out

Welcome
FruitLook Team

See more...through satellite eyes

 **FruitLook Movie**




 Western Cape Government
Agriculture


South African Fruit Journal on FruitLook:


- [December 2016: FruitLook offers a bigger picture.](#)
- [October 2016: FruitLook and irrigation management.](#)
- [August 2016: FruitLook saves money.](#)
- [June 2016: Season for change have new world of fruit farming.](#)
- [April 2016: FruitLook technology assists farmers.](#)


WineLand Magazine on FruitLook:


- [December 2016: FruitLook in a bigger picture](#)
- [November 2016: Practical uses of FruitLook .](#)
- [October 2016: FruitLook and water management.](#)
- [September 2016: FruitLook and growth monitoring.](#)
- [August 2016: Technological advancement and FruitLook](#)
- [July 2016: Introduction to FruitLook.](#)

 Contact / Helpdesk

 FruitSupport

 Shopping Cart

 Manual

 FruitLook Team



Step 6: Get more information about FruitLook

B. View demonstration fields

The demoblocks shows what type of information is available on FruitLook.

To see the same kind of information for your own fields/farm, you need to register and draw your fields (Step 1 to 3 of this Manual).

The screenshot shows the FruitLook.co.za website. At the top, there is a navigation bar with the FruitLook logo, a home icon, and links for 'See more...', 'Consultants', 'My fields', 'My details', 'Log out', and a welcome message for 'Annaline Smith'. Below the navigation bar, the main content area is divided into several sections. On the left, there are buttons for 'Add your field', 'Register for free', and 'View demoblocks' (which is highlighted with a hand cursor). Below these buttons is a newsletter subscription form with a 'Send' button. Further down, there are news items about 'FruitLook Training Thursday 6 December' and 'FruitLook 2018-19 newsletters'. In the center, there is a large banner titled 'Zoom in on your crop' with a background image of a corn cob and a person. Below the banner are five tabs: 'GENERAL', 'GROWTH', 'MOISTURE', 'MINERALS', and 'RETURNS'. Below the tabs, there is a 'Welcome to FruitLook' message and a link to 'Want to know more? Press HERE'. At the bottom, there are logos for the 'Western Cape Government' and 'eleaf'. On the right side of the main content area, there is a sidebar with buttons for 'Contact / Helpdesk', 'FruitSupport', 'Shopping Cart', 'Manual', and 'FruitLook Team'.

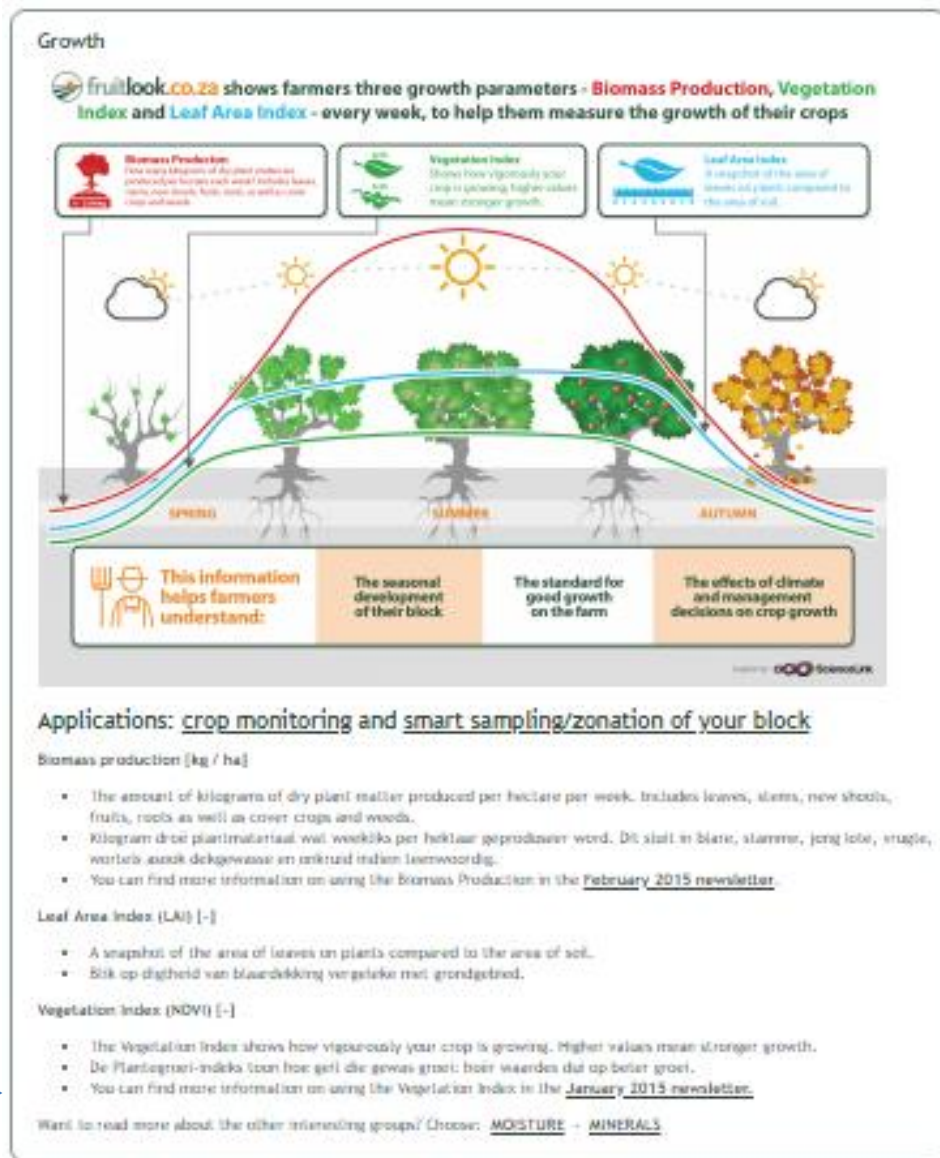


Step 6: Get more information about FruitLook

C. Dataset descriptions



On the homepage: Select “Growth”, “Moisture” or “Minerals” for a descriptions of the FruitLook datasets and example uses.





Step 6: Get more information about FruitLook

D. Newsletter + Website news section

You can remain up to date on FruitLook by reading our monthly FruitLook newsletter and the [FruitLook news section](#).

This newsletter is sent once a month during the growth season and contains information on new developments, upcoming events and examples of FruitLook data use.

The [news section](#) also informs you on the ins and outs of FruitLook and upcoming training sessions.

The screenshot shows the FruitLook website interface. At the top, there is a navigation bar with the FruitLook logo, a home icon, and links for 'See more...', 'Consultants', 'My fields', 'My details', 'Log out', and a welcome message for 'Annaline Smith'. Below the navigation bar, the main content area is divided into several sections. On the left, there are three large buttons: 'Add your field' (with a plus icon), 'Register for free' (with a play icon), and 'View demoblocks' (with a document icon). Below these buttons is a 'Newsletter: Subscribe now!' section with a text input field for an email address and a 'Send' button. Further down is a 'News' section with two articles. The first article is titled 'FruitLook Training Thursday 6 December' and mentions a registration for 'FruitLook Basics Training'. The second article is titled 'FruitLook 2018-19 newsletters' and mentions a newsletter from December 4, 2018. On the right side of the main content area, there is a vertical sidebar with five buttons: 'Contact / Helpdesk' (with an information icon), 'FruitSupport' (with a plus icon), 'Shopping Cart' (with a shopping cart icon), 'Manual' (with a book icon), and 'FruitLook Team' (with the FruitLook logo). In the center of the page, there is a large banner image showing a close-up of a plant stem with a magnifying glass effect. The text 'Zoom in on your crop' is overlaid on the image. Below the banner image are five buttons labeled 'GENERAL', 'GROWTH', 'MOISTURE', 'MINERALS', and 'RETURNS'. Below these buttons is a 'Welcome to FruitLook' message with a link to 'Want to know more? Press HERE'. At the bottom of the page, there is a footer section with logos for the 'Western Cape Government' and 'eleaf', along with the text 'The FruitLook service is funded by the Western Cape Department of Agriculture. The project is executed by eLEAF from the Netherlands in cooperation with South African partners.'



Step 6: Get more information about FruitLook
E. Contact us!

Thanks for reading through this Manual.

For more help, suggestions, feedback, comments,
questions, remarks....

contact info@fruitLook.co.za

Have a fruitful season!